

INTERNAL COMBUSTION ENGINE CYLINDER-TO-CYLINDER
BALANCING WITH BALANCED AIR-FUEL RATIOS

ABSTRACT OF THE DISCLOSURE

A method of balancing combustion among cylinders of an internal combustion engine. For each cylinder, a normalized peak firing pressure is calculated as the ratio of its peak firing pressure to its combustion pressure. Each cylinder's normalized peak firing pressure is compared to a target value for normalized peak firing pressure. The fuel flow is adjusted to any cylinder whose normalized peak firing pressure is not substantially equal to the target value.